

ABSTRACT OF THE DISCLOSURE

A seal mechanism with improved pressure tightness is provided to eliminate a return piping to a fuel tank used for reducing pressure applied to the seal mechanism in a high pressure fuel pump. The seal mechanism includes a stress reduction mechanism for reducing the stress generated at the junction between its retaining member and flexible member.

1. A seal mechanism for a high pressure fuel pump, comprising: a retaining member; a flexible member; and a stress reduction member disposed between the retaining member and the flexible member, the stress reduction member having a first end connected to the retaining member and a second end connected to the flexible member, the stress reduction member being adapted to reduce the stress generated at the junction between the retaining member and the flexible member.